

Program: 0802TEC	Description: LCLB Feb 2008	Approval: Program Manager Functional Manager Cost Account Manager
Run Date: 5/8/2008 15:03	Status Date: 2/29/2008	

PROJECT WBS PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
1.01 LCLS PROJECT MGMT, PLANNING & ADMN (TEC)													
1.01.01.01 Radiation Physics	BCWS	0	0	10,688	134,285	290,934	347,469	381,601	401,507	157,239	0	0	1,723,724
1.01.01.02 ESH Management & Coordination	BCWS	0	0	20,489	252,547	400,485	336,140	273,103	176,015	156,585	0	0	1,615,364
1.01.01.03 Professional Services-Project Office Support	BCWS	0	0	0	0	32,030	1,607	0	0	0	0	0	33,637
1.01.02.01 Project Management Office	BCWS	0	0	3,743,316	3,946,849	3,181,103	2,650,133	1,963,410	901,141	669,786	0	0	17,055,738
1.01.03.01 Global Laser Coordination	BCWS	0	0	60,602	0	0	0	0	0	0	0	0	60,602
1.01.03.02 Global Alignment Coordination	BCWS	0	0	0	132,717	339,997	0	0	0	0	0	0	472,714
1.01.03.03 System Integration	BCWS	0	0	0	193,675	336,907	276,937	203,163	102,882	5,713	0	0	1,119,277
1.01.03.05 Global Controls	BCWS	0	0	0	1,564,539	4,737,902	2,223,433	569,539	289,658	113,612	0	0	9,498,682
1.01.03.06 Technical Requirements/Parameters	BCWS	0	0	0	0	722,140	862	0	0	0	0	0	723,002
1.01.04.01 Education/Outreach Travel	BCWS	0	0	0	9,320	1,314	0	0	0	0	0	0	10,634
1.01.04.02 Education/Outreach M&S	BCWS	0	0	0	6,168	0	0	704	0	0	0	0	6,873
PROJECT WBS[2] Totals:	BCWS	0	0	3,835,095	6,240,099	10,042,812	5,836,580	3,391,520	1,871,203	1,102,935	0	0	32,320,245
1.02 INJECTOR SYSTEM													
1.02.01.01 Injector System Integration	BCWS	0	0	0	180,302	1,051,767	233,636	0	0	0	0	0	1,465,706
1.02.01.04 Injector System Integration Effort / M&S	BCWS	0	0	2,036,729	566,639	461,498	111,634	0	0	0	0	0	3,176,500
1.02.01.03 Feedback Software	BCWS	0	0	0	0	0	0	1	0	0	0	0	1
1.02.02.01 Personnel Protection Subsystem (PPS)	BCWS	0	0	3,747	29,365	68,630	93,404	0	0	0	0	0	195,146
1.02.02.02 Beam Containment Subsystem (BCS)	BCWS	0	0	0	0	0	130,159	0	0	0	0	0	130,159
1.02.02.03 Machine Protection Subsystem (MPS)	BCWS	0	0	0	0	12,871	147,180	0	0	0	0	0	160,051
1.02.02.04 Injector Power Conversion	BCWS	0	0	17,883	44,932	834,279	148,023	0	0	0	0	0	1,045,117
1.02.02.05 LLRF Controls	BCWS	0	0	0	0	4,179	613,058	59	0	0	0	0	617,295
1.02.02.06 E-Beam Diagnostics Controls	BCWS	0	0	0	0	312,244	418,119	0	0	0	0	0	730,363
1.02.02.08 Timing Controls	BCWS	0	0	0	821	46,216	38,843	0	0	0	0	0	85,880
1.02.02.09 Vacuum Controls	BCWS	0	0	0	0	148,228	27,787	0	0	0	0	0	176,015
1.02.02.10 Software & Controls Infrastructure	BCWS	0	0	0	150,799	128,192	8,347	0	0	0	0	0	287,338
1.02.02.11 EPICS VXI Control Modules	BCWS	0	0	65,517	17,083	8,321	0	0	0	0	0	0	90,922
1.02.02.12 Laser Controls	BCWS	0	0	0	3,276	96,706	108	0	0	0	0	0	100,091
1.02.03.01 Drive Laser Support	BCWS	0	0	0	163,885	237,493	10,497	0	0	0	0	0	411,874
1.02.03.02 Drive Laser System	BCWS	0	0	67,800	68,509	1,159,244	-523	262	0	0	0	0	1,295,293
1.02.03.03 Drive Laser Diagnostics	BCWS	0	0	0	53,394	678,683	108,110	71,434	0	0	0	0	911,620
1.02.03.04 Timing Stability Monitoring	BCWS	0	0	0	0	53,516	66,580	0	0	0	0	0	120,096
1.02.03.05 Steering Stability Feedback & Msmts	BCWS	0	0	0	5,445	82,495	6,832	0	0	0	0	0	94,772
1.02.03.07 Transport to Tunnel & Relay Optics	BCWS	0	0	6,156	161,956	8,594	0	0	0	0	0	0	176,706
1.02.03.08 UV Launch, Conditioning & Diagnostics	BCWS	0	0	4,813	162,619	162,346	84,452	-756	0	0	0	0	413,474
1.02.03.11 LB Infrastructure & LB System Wide Items	BCWS	0	0	23,959	14,425	285,670	135,836	0	0	0	0	0	459,891
1.02.03.12 Alignment Laser	BCWS	0	0	0	0	12,931	40,889	0	0	0	0	0	53,820
1.02.03.13 Light path to Streak Camera	BCWS	0	0	0	0	10,017	18,170	0	0	0	0	0	28,187
1.02.03.21 UV Conv Harmonic Generation Unit (Closed Account)	BCWS	0	0	6,283	0	0	0	0	0	0	0	0	6,283
1.02.04.01 RF Gun & Load Lock	BCWS	0	0	67,894	335,296	1,104,394	-220,257	0	0	0	0	0	1,287,326
1.02.04.02 Cathode Processing (CP) Station	BCWS	0	0	0	0	0	334	0	0	0	0	0	334
1.02.04.03 S-Band Low Level Timing	BCWS	0	0	31,467	498,315	1,019,970	97,802	0	0	0	0	0	1,647,554
1.02.04.05 Injector RF Waveguide Subsystem	BCWS	0	0	120,229	856,566	189,035	3,190	0	0	0	0	0	1,169,019

PROJECT WBS	PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
	1.02.04.06	Injector Linac Structures	BCWS	0	0	29,710	276,877	627,703	40,568	0	0	0	0	974,857
	1.02.05.01	Injector Dipoles	BCWS	0	0	0	73,699	262,540	86,166	0	0	0	0	422,405
	1.02.05.02	Injector Quads	BCWS	0	0	0	74,564	276,137	11,856	0	0	0	0	362,557
	1.02.05.03	Injector Steering Coils	BCWS	0	0	0	7,571	212,977	13,805	0	0	0	0	234,352
	1.02.05.04	Linac Solenoid	BCWS	0	0	2,723	18,634	178,359	6,883	0	0	0	0	206,600
	1.02.05.05	Injector Laser Heater Subsystem	BCWS	0	0	0	0	3,990	0	0	0	0	0	3,990
	1.02.06.01	Injector Vacuum Engineering	BCWS	0	0	0	115,922	292,961	6,639	0	0	0	0	415,523
	1.02.06.02	Injector Vacuum Components	BCWS	0	0	0	148,931	47,270	0	0	0	0	0	196,201
	1.02.06.03	Injector Vacuum Special Chambers	BCWS	0	0	0	26,933	92,783	189,042	0	0	0	0	308,758
	1.02.06.04	Injector Vacuum Supports Engineering	BCWS	0	0	0	38,008	38,486	0	0	0	0	0	76,495
	1.02.06.05	Injector Vacuum Support Components	BCWS	0	0	0	43,432	55,470	9,829	0	0	0	0	108,731
	1.02.06.08	DL1 Vacuum Chamber	BCWS	0	0	6,336	0	0	0	0	0	0	0	6,336
	1.02.06.10	DL1TL Vacuum Components	BCWS	0	0	11,762	62,564	0	0	0	0	0	0	74,326
	1.02.07.01	Beam Position Monitors	BCWS	0	0	13,788	91,635	313,893	244,595	0	0	0	0	663,911
	1.02.07.02	Current Monitors	BCWS	0	0	0	700	64,713	63,949	0	0	0	0	129,362
	1.02.07.04	Profile Monitors	BCWS	0	0	41,287	176,230	651,338	537,714	0	0	0	0	1,406,570
	1.02.07.07	PPS Stopper	BCWS	0	0	0	126,766	7,375	0	0	0	0	0	134,141
	1.02.07.05	Injector Wire Scanners	BCWS	0	0	0	17,265	94,496	181	0	0	0	0	111,943
	1.02.17.01	Injector Infrastructure Installation	BCWS	0	0	0	35,270	475,001	297,639	0	0	0	0	807,910
	1.02.17.02	Injector Controls Subsystem Install & Align	BCWS	0	0	0	0	5,806	452,055	0	0	0	0	457,860
	1.02.17.03	Injector Lasers Install & Align	BCWS	0	0	0	0	54,489	37,972	0	0	0	0	92,461
	1.02.17.04	Gun Area Integration	BCWS	0	0	0	0	23,333	9,116	0	0	0	0	32,449
	1.02.17.06	Accelerator Area Integration	BCWS	0	0	0	0	996	9,019	0	0	0	0	10,015
	1.02.17.07	Heater Area Integration	BCWS	0	0	0	0	2,100	0	0	0	0	0	2,100
	1.02.17.08	Wall Area Integration	BCWS	0	0	0	1,161	45,281	0	0	0	0	0	46,442
	1.02.17.09	Insertion Area Integration	BCWS	0	0	0	0	0	7	0	0	0	0	7
	1.02.17.12	Injector RF High Power System Install & Align	BCWS	0	0	0	2,327	215,558	16,658	0	0	0	0	234,543
PROJECT WBS[2] Totals:			BCWS	0	0	2,558,083	4,652,116	12,220,576	4,355,902	70,998	0	0	0	23,857,675
1.03 LINAC SYSTEM														
	1.03.01.01	Linac Mechanical Integration	BCWS	0	0	234,391	513,436	446,751	2,209,183	759,478	0	0	0	4,163,239
	1.03.01.03	Travel	BCWS	0	0	1,860	3,911	15,109	11,582	25,117	25,694	13,963	0	97,236
	1.03.01.04	Linac Management	BCWS	0	0	896,114	129,427	294,706	634,153	214,229	273,320	50,293	0	2,492,243
	1.03.02.01	Personnel Protection System (PPS)	BCWS	0	0	0	0	0	98,907	442,069	131,953	0	0	672,930
	1.03.02.02	Beam Containment System (BCS)	BCWS	0	0	0	2,508	16,985	192,185	333,735	59,340	0	0	604,753
	1.03.02.03	Machine Protection System (MPS)	BCWS	0	0	0	0	0	90,966	149,936	28,116	0	0	269,017
	1.03.02.04	Linac Power Conversion Subsystem	BCWS	0	0	0	54,694	705,959	2,034,605	1,870,583	0	0	0	4,665,841
	1.03.02.05	Controls - LLLRF	BCWS	0	0	0	0	1,802	419,819	502,766	46,223	0	0	970,611
	1.03.02.06	Controls - E-Beam Diagnostic	BCWS	0	0	0	0	72,022	383,614	960,579	46,904	0	0	1,463,119
	1.03.02.08	Controls - Timing	BCWS	0	0	0	0	84,282	18,702	293,198	0	0	0	396,182
	1.03.02.09	Controls - Vacuum	BCWS	0	0	0	0	5,592	201,008	276,666	0	0	0	483,266
	1.03.02.10	Software & Controls Infrastructure	BCWS	0	0	0	0	306,372	449,712	885,097	179,304	0	0	1,820,485
	1.03.03.01	Bend Magnet (BX1_BC1)	BCWS	0	0	25,384	31,311	63,217	23,472	-1,475	0	0	0	141,909
	1.03.03.02	Bend Magnet (BX3_LTU)	BCWS	0	0	0	0	18,810	71,883	144,408	0	0	0	235,101
	1.03.03.03	Bend Magnet (BX2_BC2)	BCWS	0	0	13,884	2,973	13,423	271,671	119,131	0	0	0	421,082
	1.03.03.04	Bend Magnet (BY_LTU)	BCWS	0	0	0	0	966	28,607	57,816	0	0	0	87,388
	1.03.03.05	Quad Magnet (Quad_LTU)	BCWS	0	0	0	0	57,981	345,678	350,289	0	0	0	753,948
	1.03.03.07	Quad Magnet (QE)	BCWS	0	0	0	0	134,420	30,684	0	0	0	0	165,105
	1.03.03.08	Corrector Magnet (Type 4)	BCWS	0	0	0	0	2,039	102,737	34,385	0	0	0	139,161
	1.03.03.09	Bend Magnet (BYD_DUMP)	BCWS	0	0	0	0	1,071	165,966	278,006	0	0	0	445,043

PROJECT WBS	PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
	1.03.03.10 Quad Magnet (QA)	BCWS	0	0	0	5,576	65,792	33,654	0	0	0	0	0	105,022
	1.03.03.11 Bend Magnet (BYPM_LTU)	BCWS	0	0	0	0	7,400	60,174	41,653	0	0	0	0	109,227
	1.03.03.12 Bend Magnet (BYKIK_LTU)	BCWS	0	0	0	0	5,473	60,124	51,282	0	0	0	0	116,878
	1.03.03.13 Bend Magnet (BYW_LTU)	BCWS	0	0	0	0	1,008	0	0	0	0	0	0	1,008
	1.03.03.14 BXKIK LINAC TCAV Screen Kicker	BCWS	0	0	0	0	0	46,154	5,024	0	0	0	0	51,178
	1.03.04.02 Linac Beamline Vacuum System	BCWS	0	0	0	35,789	36,977	467,274	119	0	0	0	0	540,160
	1.03.04.03 BC1 Vacuum System	BCWS	0	0	13,870	43,681	483,093	130,148	0	0	0	0	0	670,792
	1.03.04.04 BC2 Vacuum System	BCWS	0	0	0	3,072	49,511	421,897	15,195	0	0	0	0	489,674
	1.03.04.05 Linac to Undulator (LTU) Vacuum System	BCWS	0	0	0	0	79,381	431,342	357,621	0	0	0	0	868,344
	1.03.04.06 Dumpline Vacuum System	BCWS	0	0	0	0	0	398,494	304,823	0	0	0	0	703,317
	1.03.04.07 Vacuum System Undulator Interface	BCWS	0	0	0	0	0	0	14,058	0	0	0	0	14,058
	1.03.04.08 LTU/BSY& Cold Trap Vacuum System	BCWS	0	0	0	0	0	39,555	42,065	0	0	0	0	81,620
	1.03.05.01 Wire Scanners (7) Summary	BCWS	0	0	0	135,380	159,219	142,284	147,902	0	0	0	0	584,784
	1.03.05.02 Beam Position Monitors	BCWS	0	0	21,913	0	195,656	256,885	158,149	0	0	0	0	632,604
	1.03.05.03 Toroid Beam Current Monitor (10) Summary	BCWS	0	0	0	11,838	33,841	177,485	5,958	0	0	0	0	229,121
	1.03.05.04 Beam Stoppers (4) Summary	BCWS	0	0	0	5,683	65,770	9,413	74,384	0	0	0	0	155,250
	1.03.05.05 Profile Monitors (7 OTR-3 PHOSPHOR SCREEN-1 YAG)	BCWS	0	0	34,943	16,363	391,041	422,072	476,807	0	0	0	0	1,341,225
	1.03.05.06 E/O Bunch Length Monitors (1) Summary	BCWS	0	0	22,483	0	0	0	0	0	0	0	0	22,483
	1.03.05.07 CSR/OTR/CTR Bunch Length Monitors (5) Summary	BCWS	0	0	0	68,131	339,405	272,169	74,939	0	0	0	0	754,644
	1.03.05.08 Beam Loss Monitors	BCWS	0	0	0	0	0	28,844	0	0	0	0	0	28,844
	1.03.05.09 Single Beam Dump (1) Summary	BCWS	0	0	0	0	0	40,489	93,529	0	0	0	0	134,018
	1.03.05.10 Electron Beam Dump (1) Summary	BCWS	0	0	0	0	979	47,841	91,872	0	0	0	0	140,692
	1.03.05.11 Protection Collimators (5) Summary	BCWS	0	0	0	0	0	91,871	234,300	0	0	0	0	326,171
	1.03.05.12 Movable Collimators (7x,3y) Summary	BCWS	0	0	28,810	712	124,924	284,970	213,693	0	0	0	0	653,110
	1.03.05.13 Safety Electron Dump (1) Summary	BCWS	0	0	0	0	2,040	40,486	49,126	0	0	0	0	91,652
	1.03.06.02 S-Band High Power System	BCWS	0	0	0	128,287	881,683	76,081	0	0	0	0	0	1,086,052
	1.03.06.03 S-Band Structures	BCWS	0	0	0	21,584	21,526	4,575	0	0	0	0	0	47,685
	1.03.06.04 X-Band Low Level System	BCWS	0	0	0	127,184	42,598	34,152	0	0	0	0	0	203,934
	1.03.06.05 X-Band High Power System	BCWS	0	0	50,699	128,124	572,822	149,938	0	0	0	0	0	901,583
	1.03.06.06 X-Band Structures	BCWS	0	0	0	25,131	133,314	5,843	0	0	0	0	0	164,288
	1.03.06.07 RF Distribution System	BCWS	0	0	0	1,241	29,338	25,865	0	0	0	0	0	56,444
	1.03.07.01 Linac L01 System Installation & Alignment	BCWS	0	0	0	4,738	425,507	141,292	199	0	0	0	0	571,735
	1.03.07.02 Linac BC1 System Installation & Alignment	BCWS	0	0	0	0	68,281	-45,705	0	0	0	0	0	22,576
	1.03.07.05 Linac L03 System Installation & Alignment	BCWS	0	0	0	0	63	0	0	0	0	0	0	63
	1.03.07.06 Linac LTU System Installation & Alignment	BCWS	0	0	0	0	87,837	15,805	2,153,050	433,602	0	0	0	2,690,294
	1.03.07.07 Linac E-Dump System Installation & Alignment	BCWS	0	0	0	0	0	27,208	915,843	84,335	0	0	0	1,027,387
	1.03.07.10 LINAC Installation 2006 Shut Down	BCWS	0	0	0	0	34,180	1,023,601	0	0	0	0	0	1,057,781
	1.03.07.20 LINAC Installation 2007 Shut Down	BCWS	0	0	0	0	0	887,321	1,756,500	0	0	0	0	2,643,820
	PROJECT WBS[2] Totals:	BCWS	0	0	1,344,352	1,500,776	6,580,166	14,034,731	14,974,104	1,308,791	64,256	0	0	39,807,176
	1.04 UNDULATOR SYSTEM													
	1.04.01.03 Undulator System Reviews and Workshops	BCWS	0	0	0	-62	522	2,400	862	0	0	0	0	3,722
	1.04.01.01 Undulator System Management	BCWS	0	0	2,130,151	1,399,128	1,457,944	2,400,628	1,082,618	169,445	0	0	0	8,639,915
	1.04.01.02 Undulator System Materials & Supplies	BCWS	0	0	0	216,881	206,665	397,922	140,337	0	0	0	0	961,804
	1.04.02.01 Controls Management and Integration	BCWS	0	0	0	36,301	30,575	33,709	0	0	0	0	0	100,584
	1.04.02.02 Motion	BCWS	0	0	0	62,589	109,303	226,205	0	0	0	0	0	398,096
	1.04.02.03 Signal Analysis	BCWS	0	0	0	0	29,459	23,911	2,075	0	0	0	0	55,445
	1.04.02.04 Video	BCWS	0	0	0	28,093	452	0	0	0	0	0	0	28,546

PROJECT WBS	PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
	1.04.02.05 Data Acquisition and Control	BCWS	0	0	0	0	10,208	9,689	0	0	0	0	0	19,897
	1.04.02.07 Machine Protection	BCWS	0	0	0	0	0	2,996	0	0	0	0	0	2,996
	1.04.02.08 Undulator Magnet Power Supplies	BCWS	0	0	0	0	0	213,902	134,306	0	0	0	0	348,208
	1.04.02.10 Undulator Control Module	BCWS	0	0	0	0	0	173,682	993,138	0	0	0	0	1,166,820
	1.04.02.12 Rack and Cable	BCWS	0	0	0	0	0	33,814	556,396	0	0	0	0	590,211
	1.04.02.13 BPM	BCWS	0	0	0	0	0	6,454	4,389	0	0	0	0	10,843
	1.04.02.14 Long Term Test Prep	BCWS	0	0	0	0	0	2,614	19,617	0	0	0	0	22,231
	1.04.02.17 Undulator Conrols - Management	BCWS	0	0	0	0	0	0	75,150	34,439	0	0	0	109,589
	1.04.02.20 Undulator MPS	BCWS	0	0	0	0	0	0	235,442	0	0	0	0	235,442
	1.04.02.21 Undulator Controls - Timing	BCWS	0	0	0	0	0	0	156,334	0	0	0	0	156,334
	1.04.02.22 Undulator Controls - BPM	BCWS	0	0	0	0	0	0	238,660	0	0	0	0	238,660
	1.04.02.23 Undulator Controls - Vacuum	BCWS	0	0	0	0	0	0	229,366	0	0	0	0	229,366
	1.04.02.24 Undulator Controls - ADS System	BCWS	0	0	0	0	0	0	6,683	0	0	0	0	6,683
	1.04.03.01 UND Magnet & Support - Mgmt and Integration	BCWS	0	0	0	3,476	259	0	0	0	0	0	0	3,734
	1.04.03.02 First Prototype Undulator & Mfg Plan	BCWS	0	0	0	0	0	0	0	0	0	0	0	0
	1.04.03.03 1st Article Undulators & Long Lead													
	Procurements	BCWS	0	0	0	1,393,004	5,973,707	1,857,035	236,386	0	0	0	0	9,460,132
	1.04.03.04 Production Undulator Magnet Assembly & Supports	BCWS	0	0	0	0	179,851	1,983,407	2,042,565	0	0	0	0	4,205,823
	1.04.03.05 Quadrupole Focusing Magnets	BCWS	0	0	0	6,545	138,296	337,475	395,376	0	0	0	0	877,692
	1.04.03.06 Undulator Magnetic Measurement Facility (SLAC)	BCWS	0	0	38,173	904,689	3,307,684	2,569,492	2,393,855	152,423	0	0	0	9,366,317
	1.04.03.08 Fixed Supports	BCWS	0	0	0	54,307	228,320	327,484	375,947	0	0	0	0	986,058
	1.04.04.02 Undulator Vacuum Chamber Assembly	BCWS	0	0	0	56,264	420,605	987,015	1,029,761	0	0	0	0	2,493,646
	1.04.04.03 Beam-line Bellows Module Assembly	BCWS	0	0	0	27,935	106,219	79,592	75,328	0	0	0	0	289,074
	1.04.04.05 Short Diagnostic Break (SDB) Assembly	BCWS	0	0	0	0	7,427	38,826	103,999	0	0	0	0	150,251
	1.04.04.06 Long Diagnostic Break (LDB) Assembly	BCWS	0	0	0	0	1,258	56,197	159,406	0	0	0	0	216,861
	1.04.04.07 Entrance Section Assembly	BCWS	0	0	0	0	0	3,563	0	0	0	0	0	3,563
	1.04.04.08 Exit Section Assembly	BCWS	0	0	0	0	0	2,483	0	0	0	0	0	2,483
	1.04.04.09 Baking System	BCWS	0	0	0	3,769	217	91,474	4,601	0	0	0	0	100,061
	1.04.04.04 Single Undulator Test (SUT) Vacuum	BCWS	0	0	0	0	109,359	1,047	0	0	0	0	0	110,406
	1.04.05.02 Undulator Line Diagnostics (ULD)	BCWS	0	0	0	196,747	231,874	6,570	0	0	0	0	0	435,191
	1.04.05.04 End-of-Undulator(EOU) X-ray and Profile diagnost	BCWS	0	0	0	0	54,654	13,532	0	0	0	0	0	68,186
	1.04.05.05 RFBPM	BCWS	0	0	0	90,488	591,690	991,402	1,778,261	12,707	0	0	0	3,464,548
	1.04.05.08 Beam Loss Monitoring	BCWS	0	0	0	0	15,287	140,431	66,878	214,120	0	0	0	436,715
	1.04.05.06 Beam Finder Wire	BCWS	0	0	0	9,899	204,419	249,787	510,047	0	0	0	0	974,153
	1.04.05.10 Single Undulator Test (SUT) Diagnostics	BCWS	0	0	0	0	76,373	790	0	0	0	0	0	77,162
	1.04.06.02 Control System Installation and Alignment	BCWS	0	0	0	0	0	8,422	0	0	0	0	0	8,422
	1.04.06.04 Vacuum System Installation and Alignment	BCWS	0	0	0	3,294	12,944	27,782	13,857	0	0	0	0	57,877
	1.04.06.06 2008 Undulator System Installation	BCWS	0	0	0	0	0	0	1,456,065	505,266	0	0	0	1,961,331
	PROJECT WBS[2] Totals:	BCWS	0	0	2,168,324	4,493,349	13,505,570	13,301,728	14,517,706	1,088,399	0	0	0	49,075,076
	1.05 X-RAY TRANSPORT & DIAGNOSTICS SYSTEMS													
	1.05.01.01 Management	BCWS	0	1,525,419	0	890,196	1,126,536	1,158,873	602,158	190,098	97,752	0	0	5,591,032
	1.05.02.01 Controls	BCWS	0	0	0	0	520,260	1,116,273	1,875,847	454,137	0	0	0	3,966,517
	1.05.02.03 Controls - Vacuum	BCWS	0	0	0	0	1,482	0	0	0	0	0	0	1,482
	1.05.02.02 Motor Controls	BCWS	0	0	0	277,843	0	0	264	0	0	0	0	278,107
	1.05.03.01 Vacuum Systems Engineering	BCWS	0	0	0	0	97,317	279,232	658,854	72,445	0	0	0	1,107,849
	1.05.03.02 Mech/Vac Front End	BCWS	0	0	0	341,513	76,525	28,800	131,897	755,292	0	0	0	1,334,028

PROJECT WBS	PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
	1.05.03.03 Mech/Vac Near Hall	BCWS	0	0	0	0	0	76,862	126,153	265,429	0	0	0	468,444
	1.05.03.04 Mech/Vac Tunnel	BCWS	0	0	0	84,745	262,636	108,299	509	526,659	0	0	0	982,849
	1.05.03.05 Mech/Vac Far Hall	BCWS	0	0	0	0	0	0	0	97,675	0	0	0	97,675
	1.05.04.02 Facility Optics	BCWS	0	0	0	348,514	1,680,392	2,950,544	2,290,197	656,233	0	0	0	7,925,882
	1.05.05.02 Modeling & Simulation	BCWS	0	0	0	526,293	685,260	0	0	0	0	0	0	1,211,553
	1.05.05.03 Facility Diagnostics	BCWS	0	0	0	204,314	546,470	1,330,663	825,989	25,003	0	0	0	2,932,438
	1.05.05.04 Commissioning Diagnostics	BCWS	0	0	0	267,262	830,727	1,156,357	1,242,660	619,034	0	0	0	4,116,040
	1.05.06.01 FEE Install	BCWS	0	0	0	0	0	0	248,123	985,641	0	0	0	1,233,764
	1.05.06.02 Near Hall Install	BCWS	0	0	0	0	0	0	11,720	148,531	0	0	0	160,250
	1.05.06.03 Tunnel Install	BCWS	0	0	0	0	0	0	0	167,342	26,632	0	0	193,974
	1.05.06.04 Far Hall Install	BCWS	0	0	0	0	0	0	0	90,005	33,290	0	0	123,295
	1.05.06.05 Electron Dump Enclosure Install	BCWS	0	0	0	0	0	0	0	14,741	0	0	0	14,741
PROJECT WBS[2] Totals:		BCWS	0	1,525,419	0	2,940,680	5,827,605	8,205,904	8,014,372	5,068,264	157,674	0	0	31,739,918
1.06 X-RAY END STATION SYSTEMS														
	1.06.01.01 Management	BCWS	0	0	202,096	197,569	247,942	187,914	174,636	37,989	0	0	0	1,048,147
	1.06.01.02 SSRL Physics	BCWS	0	0	0	294,961	0	0	0	0	0	0	0	294,961
	1.06.02.01 Controls Management	BCWS	0	0	0	0	0	83,689	141,810	196,075	153,076	0	0	574,649
	1.06.02.02 Network - Closed (Moved to new WBS Element)	BCWS	0	0	0	0	21,463	-21,365	0	0	0	0	0	98
	1.06.02.03 PC Support - Closed (Moved to New WBS Element)	BCWS	0	0	0	0	5,136	1,122	0	0	0	0	0	6,258
	1.06.02.04 Beamline Controls - AP - Closed (Moved to new WBS Element)	BCWS	0	0	0	0	77,619	-77,492	0	0	0	0	0	127
	1.06.02.05 X-Ray PPS - Closed (Moved to new WBS Element)	BCWS	0	0	0	0	27,118	0	0	0	0	0	0	27,118
	1.06.02.06 X-Ray MPS - Closed (Moved to new WBS Element)	BCWS	0	0	0	0	1,338	0	0	0	0	0	0	1,338
	1.06.02.07 AMOS Experiment Controls X1	BCWS	0	0	0	0	0	521,945	440,322	1,472,692	0	0	0	2,434,959
	1.06.02.08 AMOS Particle Imaging Controls	BCWS	0	0	0	0	0	0	43,439	102,593	0	0	0	146,032
	1.06.02.09 Controls Management - Closed (Moved to new WBS Element)	BCWS	0	0	0	0	0	19	0	0	0	0	0	19
	1.06.02.10 Global Controls System	BCWS	0	0	0	0	0	172,055	880,289	3,631,924	671,907	0	0	5,356,175
	1.06.02.11 Laser Controls	BCWS	0	0	0	0	0	0	26,331	162,717	0	0	0	189,048
	1.06.04.01 XES Laser	BCWS	0	0	0	0	0	0	37,573	419,858	0	0	0	457,432
	1.06.04.02 Laser Diagnostics	BCWS	0	0	0	0	0	0	19,882	82,320	0	0	0	102,202
	1.06.04.03 Laser Optical Transport	BCWS	0	0	0	0	0	0	118,182	253,423	0	0	0	371,606
	1.06.04.04 Laser Safety	BCWS	0	0	0	0	0	6,684	19,720	24,028	0	0	0	50,432
	1.06.05.04 Detector & Streak Camera	BCWS	0	0	0	0	94,064	70,675	80,780	0	0	0	0	245,519
	1.06.05.01 Beam Imaging	BCWS	0	0	0	0	0	3,590	0	0	0	0	0	3,590
	1.06.06.01 Front End Install	BCWS	0	0	0	0	0	0	0	43,755	0	0	0	43,755
	1.06.06.02 Near Hall Install	BCWS	0	0	0	0	392	0	283,602	1,071,342	115,216	0	0	1,470,552
	1.06.06.03 Tunnel Install	BCWS	0	0	0	0	0	0	0	42,033	529	0	0	42,562
	1.06.06.04 Far Hall Install	BCWS	0	0	0	0	0	0	0	158,720	8,571	0	0	167,291
	1.06.06.05 Electron Dump Enclosure Install	BCWS	0	0	0	0	0	0	32,752	11,189	0	0	0	43,941
	1.06.07.01 AMO Exp - Management & Design	BCWS	0	0	0	0	198,676	432,963	337,649	119,739	0	0	0	1,089,027
	1.06.07.02 AMO Exp - High Field Physics	BCWS	0	0	0	0	0	0	20,247	1,581,966	30,639	0	0	1,632,852
	1.06.07.03 AMO Exp - Refocus Optics	BCWS	0	0	0	0	0	0	64,975	392,506	0	0	0	457,481
	1.06.07.04 AMO Exp - Diagnostics	BCWS	0	0	0	0	0	0	8,099	561,190	0	0	0	569,288
	1.06.08.01 K Measurement Crystals	BCWS	0	0	0	0	0	0	26,827	0	0	0	0	26,827
	1.06.09.01 PPS Stoppers	BCWS	0	0	0	0	0	102,766	345,831	208,073	0	0	0	656,670

PROJECT WBS	PROJECT WBS[4]		FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	Cumulative
	1.06.09.02 PPS Shielding	BCWS	0	0	0	0	0	845	62,102	157,744	0	0	0	220,691
	1.06.09.03 NEH Hutch Doors	BCWS	0	0	0	0	0	3,921	116,542	0	0	0	0	120,463
	PROJECT WBS[2] Totals:	BCWS	0	0	202,096	492,530	673,747	1,489,330	3,281,588	10,731,879	979,937	0	0	17,851,108
	1.09 CONVENTIONAL FACILITIES													
	1.09.01.01 Management	BCWS	0	0	1,374,861	441,666	963,219	589,126	306,379	105,936	49,828	0	0	3,831,014
	1.09.01.02 CAM/CF Engineering	BCWS	0	0	66,683	324,488	1,113,993	1,922,133	1,166,700	308,415	0	0	0	4,902,413
	1.09.01.03 Construction Management & AE Support	BCWS	0	0	0	551,279	4,531,063	6,752,785	3,464,775	2,481,847	0	0	0	17,781,748
	1.09.01.04 Mechanical Design (MD)	BCWS	0	0	23,998	118,179	204,039	86,828	0	0	0	0	0	433,044
	1.09.01.05 Conventional Experiment Facility (CEF)	BCWS	0	0	13,217	115,391	83,789	37,488	0	0	0	0	0	249,884
	1.09.02.02 A & E Services (S20, MMF, MMC not Incl)	BCWS	0	0	245,281	1,769,692	3,477,615	-47,773	-1,887	0	0	0	0	5,442,927
	1.09.02.03 A & E Services - (S20, MMF, MCC)	BCWS	0	0	0	232,275	32,862	0	0	0	0	0	0	265,138
	1.09.03.01 Sector 20 Injector Facilities	BCWS	0	0	0	314,802	2,689,863	116,664	6,033	0	0	0	0	3,127,362
	1.09.03.02 Magnetic Measurement Facility	BCWS	0	0	0	415,818	2,880,618	61,597	0	0	0	0	0	3,358,033
	1.09.03.04 Linac Facility Upgrade (LN)	BCWS	0	0	0	36,292	74,155	1,825,412	501,710	650,000	0	0	0	3,087,569
	1.09.03.05 Research Yard	BCWS	0	0	0	0	1,998,842	1,163,848	485,173	0	0	0	0	3,647,863
	1.09.03.06 Pre-Purchase Equipment for Beam Path	BCWS	0	0	0	0	0	1,039,655	1,043,547	0	0	0	0	2,083,202
	1.09.03.07 SITEWORK, Earthwork, Site Utilities, & Survey	BCWS	0	0	0	0	0	7,881,517	3,243,048	729,243	0	0	0	11,853,808
	1.09.03.08 Beam Transport Hall (BTH)	BCWS	0	0	0	0	0	6,698,476	2,202,741	0	0	0	0	8,901,217
	1.09.03.09 Front End Enclosure (FEE)	BCWS	0	0	0	0	0	1,211,355	876,101	0	0	0	0	2,087,456
	1.09.03.10 Electron Beam Dump (EBD)	BCWS	0	0	0	0	0	1,854,196	888,525	0	0	0	0	2,742,721
	1.09.03.11 Near Experimental Hall (NEH)	BCWS	0	0	0	0	0	10,878,668	6,948,836	0	0	0	0	17,827,504
	1.09.03.12 Undulator Hall (UH)	BCWS	0	0	0	0	0	6,219,939	3,201,690	0	0	0	0	9,421,628
	1.09.03.13 X-Ray Transport & Diagnostic (XRTD)	BCWS	0	0	0	0	0	103,434	4,959,909	0	0	0	0	5,063,343
	1.09.03.14 Far Experimental Hall (FEH)	BCWS	0	0	0	0	0	2,272,463	5,673,627	2,581,732	0	0	0	10,527,822
	1.09.03.15 BTH Service Buildings 2.1, 2.2, and 2.3 (SB BTH)	BCWS	0	0	0	0	0	671,393	2,413,870	0	0	0	0	3,085,263
	1.09.03.16 UH Service Building 3.1 (SB UH)	BCWS	0	0	0	0	0	124,561	1,420,194	0	0	0	0	1,544,756
	1.09.03.17 FEH Access Tunnel Service Yard (SY FEH)	BCWS	0	0	0	0	0	0	792,127	0	0	0	0	792,127
	1.09.03.18 Central Utility Plant (CUP)	BCWS	0	0	0	0	0	1,225,665	5,330,803	0	0	0	0	6,556,469
	1.09.03.19 SLAC Space Renovation for LCLS Ops	BCWS	0	0	0	0	0	3,766	0	411,667	4,572,333	0	0	4,987,766
	1.09.03.03 BTH West	BCWS	0	0	0	0	0	8,348	679,399	0	0	0	0	687,748
	1.09.03.20 Project Close Out - Conventional Facilities System	BCWS	0	0	0	0	0	0	50,000	1,411,261	137,019	0	0	1,598,279
	PROJECT WBS[2] Totals:	BCWS	0	0	1,724,040	4,319,882	18,050,057	52,701,542	45,653,302	8,680,100	4,759,180	0	0	135,888,103
	Grand Totals:	BCWS	0	1,525,419	11,831,990	24,639,433	66,900,533	99,925,718	89,903,591	28,748,636	7,063,982	0	0	330,539,302